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SEARCH REQUEST FORM4.73⁸Requestor's
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957045

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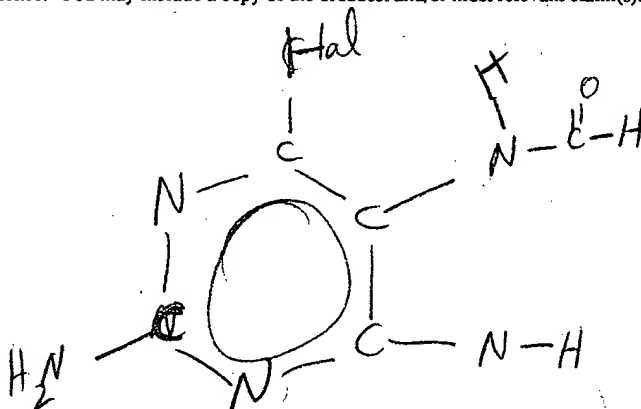
4718

Art Unit:

1611

Search Topic:

Please write a detailed statement of search topic. Describe specifically as possible the subject matter to be searched. Define any terms that may have a special meaning. Give examples or relevant citations, authors keywords, etc., if known. For sequences, please attach a copy of the sequence. You may include a copy of the broadest and/or most relevant claim(s).



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1st

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Date completed:

4/24

Searcher:

Mary 4258

Terminal time:

17

Elapsed time:

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Number of Searches:

Number of Databases:

Search Site

☐ STIC☐ CM-1☐ Pre-S

Type of Search

☐ N.A. Sequence☐ A.A. Sequence☐ Structure☐ Bibliographic

Vendors

☒ IG Suite☐ STN☐ Dialog☐ APS☐ Geninfo☐ SDC☐ DARC/Questel☐ Other

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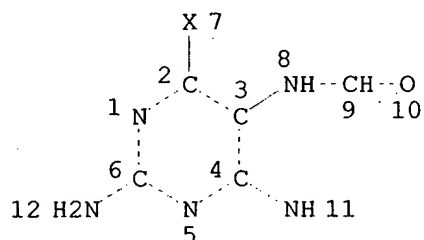
STRUCTURE FILE UPDATES: 19 APR 98 HIGHEST RN 204314-86-3
DICTIONARY FILE UPDATES: 23 APR 98 HIGHEST RN 204314-86-3

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=> d l3 que stat;d 1-4 ide cbib abs;fil caol;s l3

L1 STR



NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED

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957045

NUMBER OF NODES IS 12

STEREO ATTRIBUTES: NONE

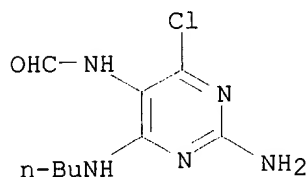
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100.0% PROCESSED 52 ITERATIONS

4 ANSWERS

SEARCH TIME: 00.00.02

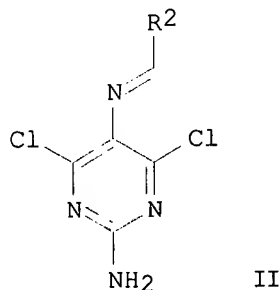
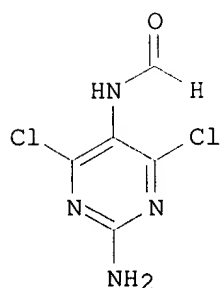
L3 ANSWER 1 OF 4 REGISTRY COPYRIGHT 1998 ACS
RN 174266-17-2 REGISTRY
CN Formamide, N-[2-amino-4-(butylamino)-6-chloro-5-pyrimidinyl]- (9CI)
(CA INDEX NAME)
FS 3D CONCORD
MF C9 H14 Cl N5 O
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:202291 Preparation of N-(2-amino-4,6-dichloropyrimidin-5-yl)formamide. Stucky, Gerhard; Imwinkelried, Rene (Lonza AG, Switz.). Eur. Pat. Appl. EP 684236 A2 951129, 13 pp. DESIGNATED STATES: R: AT, BE, CH, DE, DK, ES, FR, GB, IE, IT, LI, NL, PT, SE. (German). CODEN: EPXXDW. APPLICATION: EP 95-106220 950425. PRIORITY: CH 94-1299 940427.

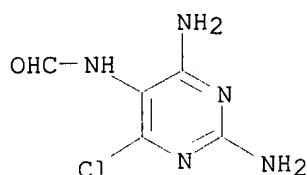
GI



AB The title compd., I, is prepd. in high yield and purity by the cyclization of an an aminomalonate ester $R1O2CH(NH2)CO2R1$ ($R1 = C1-6$ alkyl) or its salts with guanidine or its salts in the presence of a base (e.g., NaOMe), forming 1,4-diamino-2,6-dihydropyridine, which

is reacted with a chlorination agent (e.g., POCl₃) in the presence of formamides HCOR₂ [R₂ = (un)substituted NH₂ or heterocyclic ring] (e.g., DMF) to yield a dichloropyrimidine, II, which is subsequently reacted with an alkanolic acid (e.g., AcOH, etc.).

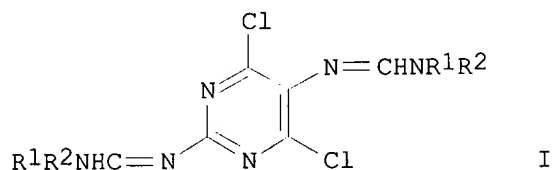
L3 ANSWER 2 OF 4 REGISTRY COPYRIGHT 1998 ACS
 RN 171887-09-5 REGISTRY
 CN Formamide, N-(2,4-diamino-6-chloro-5-pyrimidinyl)- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C5 H6 Cl N5 O
 SR CA
 LC STN Files: CA, CAPLUS



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:56577 Preparation of chloropyrimidine intermediates for 9-substituted-2-aminopurines.. Daluge, Susan Many; Martin, Michael Tolar; Fugett, Michelle Joanne Ferry (Wellcome Foundation, Ltd., UK). PCT Int. Appl. WO 9521161 A1 950810, 35 pp. DESIGNATED STATES: W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 95-GB225 950203. PRIORITY: GB 94-2161 940204.

GI

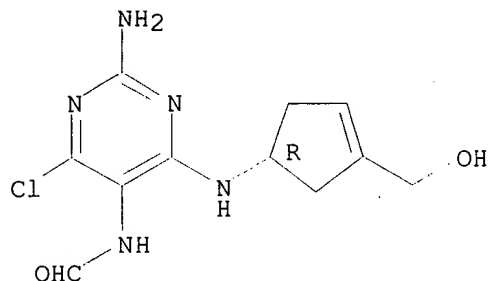


AB Title compds. [I; R₁, R₂ = alkyl, cycloalkyl, (substituted) aryl], were prepd. Thus, 2,5-diamino-4,6-dihydroxypyrimidine hemisulfate and Vilsmeier reagent were refluxed in CH₂Cl₂ to give 81% I (R₁ = R₂ = Me), which was converted to (1S,4R)-4-[2-amino-6-(cyclopropylamino)-9H-purin-9-yl]-2-cyclopentene-1-methanol in several steps.

L3 ANSWER 3 OF 4 REGISTRY COPYRIGHT 1998 ACS
 RN 171887-06-2 REGISTRY
 CN Formamide, N-[2-amino-4-chloro-6-[[3-(hydroxymethyl)-3-cyclopenten-1-yl]amino]-5-pyrimidinyl]-, (R)- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH

MF C11 H14 Cl N5 O2
 SR CA
 LC STN Files: CA, CAPLUS

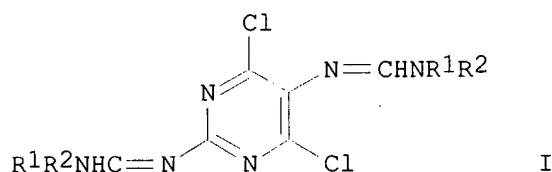
Absolute stereochemistry. Rotation (-).



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:56577 Preparation of chloropyrimidine intermediates for 9-substituted-2-aminopurines.. Daluge, Susan Many; Martin, Michael Tolar; Fugett, Michelle Joanne Ferry (Wellcome Foundation, Ltd., UK). PCT Int. Appl. WO 9521161 A1 950810, 35 pp. DESIGNATED STATES: W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 95-GB225 950203. PRIORITY: GB 94-2161 940204.

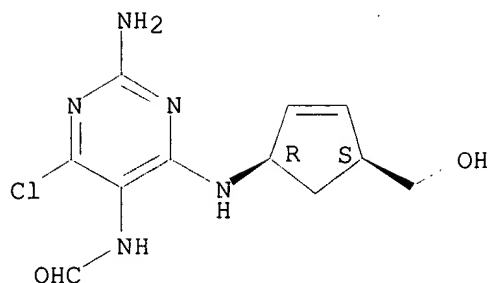
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AB Title compds. [I; R1, R2 = alkyl, cycloalkyl, (substituted) aryl], were prepd. Thus, 2,5-diamino-4,6-dihydroxypyrimidine hemisulfate and Vilsmeier reagent were refluxed in CH2Cl2 to give 81% I (R1 = R2 = Me), which was converted to (1S,4R)-4-[2-amino-6-(cyclopropylamino)-9H-purin-9-yl]-2-cyclopentene-1-methanol in several steps.

L3 ANSWER 4 OF 4 REGISTRY COPYRIGHT 1998 ACS
 RN 171887-04-0 REGISTRY
 CN Formamide, N-[2-amino-4-chloro-6-[[4-(hydroxymethyl)-2-cyclopenten-1-yl]amino]-5-pyrimidinyl]-, (1R-cis)- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C11 H14 Cl N5 O2
 SR CA
 LC STN Files: CA, CAPLUS

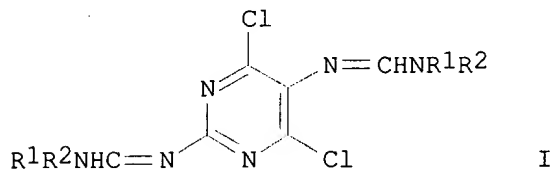
Absolute stereochemistry.



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:56577 Preparation of chloropyrimidine intermediates for 9-substituted-2-aminopurines.. Daluge, Susan Many; Martin, Michael Tolar; Fugett, Michelle Joanne Ferry (Wellcome Foundation, Ltd., UK). PCT Int. Appl. WO 9521161 A1 950810, 35 pp. DESIGNATED STATES: W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 95-GB225 950203. PRIORITY: GB 94-2161 940204.

GI



AB Title compds. [I; R1, R2 = alkyl, cycloalkyl, (substituted) aryl], were prepd. Thus, 2,5-diamino-4,6-dihydroxypyrimidine hemisulfate and Vilsmeier reagent were refluxed in CH2Cl2 to give 81% I (R1 = R2 = Me), which was converted to (1S,4R)-4-[2-amino-6-(cyclopropylamino)-9H-purin-9-yl]-2-cyclopentene-1-methanol in several steps.

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FILE LAST UPDATED: 01 May 1997 (19970501/UP)

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